

**AMENDMENTS TO THE CLAIMS**

Applicants propose this listing of claims replace all prior versions and listings of claims in the application:

1-54. (Canceled).

55. (Currently amended) A system, comprising:

**a processor; and**

**memory,**

**wherein the processor and the memory are configured to facilitate**

**providing** a virtual machine profiler interface that communicates information regarding activities of a garbage collector[[:]], and a profiler that reports the activities.

56. (Previously presented) A system according to claim 55, further comprising a virtual machine, wherein the virtual machine creates a plurality of arenas within a heap to facilitate garbage collection.

57. (Previously presented) A system according to claim 55, wherein the profiler comprises a profiler agent for providing at least one of a request for specific types of events and information or an enablement notification of specific types of events and information.

58. (Previously presented) A system according to claim 57, further comprising a virtual machine, wherein the virtual machine receives, via the virtual machine profiler interface, at least one of the request or the enablement notification.

59. (Previously presented) A system according to claim 55, wherein the profiler reports on activities of a Mark-and-Sweep garbage collector.

60. (Previously presented) A system according to claim 55, wherein the profiler reports on activities of a Mark-Sweep-Compact garbage collector.

61. (Previously presented) A system according to claim 55, wherein the profiler reports on activities of a Two-Space-Copying garbage collector.

62. (Previously presented) A system according to claim 55, wherein the profiler reports on activities of a Generational garbage collector.

63. (Previously presented) A system according to claim 55, wherein the profiler reports on activities of a Reference-Counting garbage collector.

64. (Previously presented) A system according to claim 55, wherein the virtual machine profiler interface accommodates two or more profilers.

65. (Previously presented) A method, comprising:  
communicating, via a virtual machine profiler interface, information regarding activities of a garbage collector; and  
reporting the activities.

66. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising creating a plurality of arenas within a heap to facilitate garbage collection.

67. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising providing at least one of a request for specific types of events and information or an enablement notification of specific types of events and information.

68. (Previously presented) A method according to claim 67, further comprising receiving at least one of the request or the enablement notification.

69. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising reporting activities of a Mark-and-Sweep garbage collector.

70. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising reporting activities of a Mark-Sweep-Compact garbage collector.

71. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising reporting activities of a Two-Space-Copying garbage collector.

72. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising reporting activities of a Generational garbage collector.

73. (Currently amended) A method according to claim ~~[[64]]~~ 65, further comprising reporting activities of a Reference-Counting garbage collector.

74. (Previously presented) A computer-readable storage device, comprising instructions for one or more processors to:

communicate, via a virtual machine profiler interface, information regarding activities of a garbage collector, and

report the activities.